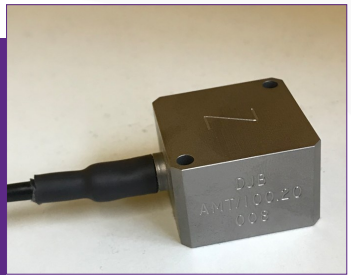
AMT/100.20 Triaxial MEMS

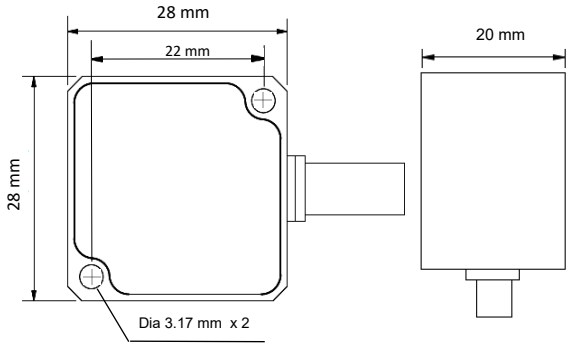
DC Response Accelerometer

±100g range, 20mV/g sensitivity



The AMT range of accelerometers are Triaxial MEMS (Micro Electro Mechanical System) DC response voltage output devices, for testing at low frequency vibration measurements from DC (0Hz) and above. They are a Triaxial variable capacitance design accelerometers and are available with a wide range of integral cable lengths, or can be fitted with a suitable connector upon request.

AMT/100.20

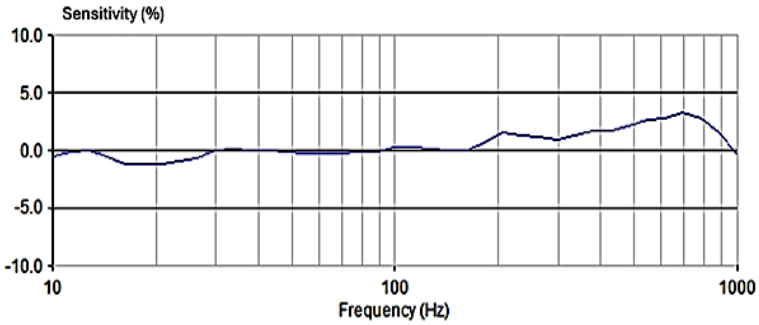


Ideally suited to low frequency vibration applications, including low level vibration where high sensitivity is required.

Features:

- Operational frequency range DC to 1KHz
- Differential Capacitance operation
- Compact form and low mass
- Constant gravity measurement
- Cable customised to suit needs

Typical Frequency Response



Wires Colour Coding:

Red	V^+
Black	Common
White	X axis
Green	Y axis
Yellow	Z axis

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ISO 9001 — 00025363

V1.0 FEB-2024

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DC Response Accelerometer

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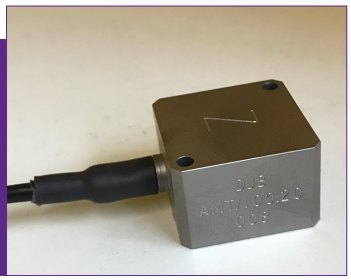

Technical Data:

	Metric	Imperial
Sensitivity (160Hz, 1g)	2.01 mV/(ms^{-2})	20 mV/g
Measurement Range	±981 m/s^2 pk	± 100g pk
Transverse Sensitivity	±5%	
Frequency Range (±0.5dB)	DC to 1 kHz	
Temperature Range	-40 to 125°C	-40 to 257°F
Overload Limit (shock)	98066.5 m/s^2 pk	10000g pk
Power Supply	+5.5 to +15V DC	
Excitation Current	1.0 -1.15mA	
0g Bias Voltage	2.5 ± 0.25V DC	
Weight	25 grams	0.88 oz
Housing Material	Titanium	
Mounting	2 x ∅ 3.17 mm holes	2 x ∅ 0.125” holes
Output Connector	Integral Cable	
Cable Exit	Side	
Size	28x28x20mm	1.1x1.1x0.78”
Output Impedance	≤0.1Ω	

Specifications may be subject to change without prior notice.

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